

26



96 104 CHOICE 4 VERY EASY VERY VERY VERY GOOD WELL EASY ☐ BP CUFF CANCEL 92 CHOICE 3 GOOD EASY EASY WELL ,102 ☐ RESPIRATORY FLOW METER CHOICE 2 BADLY HARD HARD BAD CREATE SCRIPT DIABETES SCRIPT 1 SCRIPT ENTRY SCREEN SELECT DEVICE TYPE(S) CHOICE 1 HARD VERY VERY BADLY VERY VERY HARD BAD  $\frac{100}{}$ FOLLOW YOUR TREATMENT PLAN? CONTROL YOUR BLOOD SUGAR? HOW HARD IS IT FOR YOU TO HOW HARD IS IT FOR YOU TO MANAGING YOUR DISEASE? D 98 X GLUCOSE METER HOW DO YOU FEEL? HOW WELL ARE YOU SCRIPT NAME: 03:00 QUERIES CONNECTION TIME: 94\

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FIG. 5

NUMBER: 9001 {LF}

LED: 1 {LF}

ZAP: {LF}

CLS: {LF}

**DISPLAY: ANSWER QUERIES NOW?** 

PRESS ANY BUTTON TO START {LF}

WAIT: {LF}

CLS: {LF}

DISPLAY: HOW DO YOU FEEL?

VERY VERY BAD BAD GOOD GOOD {LF}

INPUT: OOOO {LF}

CLS: {LF}

DISPLAY: HOW WELL ARE YOU

MANAGING YOUR DISEASE?

VERY

VERY

WELL BADLY WELL WELL {LF}

INPUT: OOOO {LF}

CLS: {LF}

DISPLAY: HOW HARD IS IT FOR YOU TO

FOLLOW YOUR TREATMENT PLAN?

**VERY** 

VERY

HARD HARD EASY EASY {LF}

INPUT: OOOO {LF}

CLS: {LF}

DISPLAY: HOW HARD IS IT FOR YOU TO

CONTROL YOUR BLOOD SUGAR?

VERY

VERY

HARD HARD EASY EASY {LF}

FIG. 6A





INPUT: OOOO {LF}

CLS: {LF}

**DISPLAY: CONNECT GLUCOSE METER** 

AND PRESS ANY BUTTON

WHEN FINISHED {LF}

WAIT: {LF}

CLS: {LF}

DISPLAY: COLLECTING MEASUREMENTS {LF}

COLLECT: GLUCOSE\_METER {LF}

CLS: {LF}

**DISPLAY: CONNECT APPARATUS TO** 

TELEPHONE JACK AND PRESS ANY BUTTON WHEN FINISHED {LF}

WAIT: {LF}

LED: 0 {LF}

CLS: {LF}

DELAY: 03:00 {LF}

DISPLAY: CONNECTING TO SERVER {LF}

CONNECT: {LF}

{EOF}

FIG. 6B

57 SCRIPT ASSIGNMENT SCREEN **AVAILABLE SCRIPTS: PATIENTS:** 106 **DIABETES SCRIPT** 1 108**DAN LINDSEY DIABETES SCRIPT 2 MARK SMITH** 112 **DEAN JONES ASTHMA SCRIPT 1** 114 110 ADD SCRIPT **DELETE SCRIPT ASSIGN SCRIPT** FIG. 7 HOW DO YOU FEEL? **VERY VERY** 26 **GOOD BAD GOOD BAD** 70A 70C 70B 70D FIG. 8 CONNECT GLUCOSE METER AND PRESS ANY BUTTON WHEN FINISHED 26 -

**FIG.** 9

70B

70C

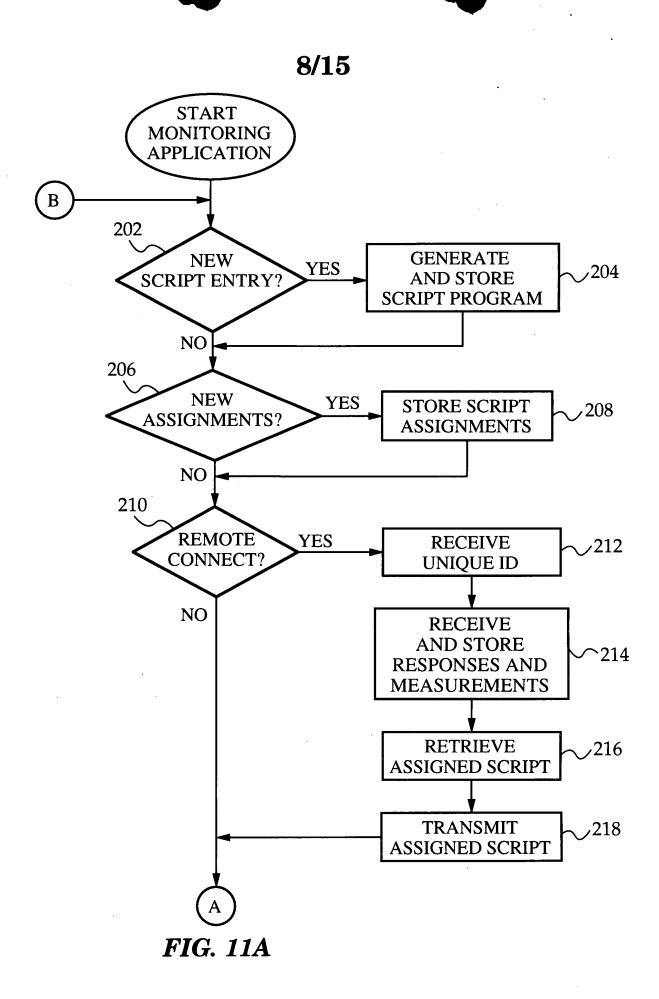
70D

70A

MARCH 15, 1997 | ♥ 18 HOURS DATE OF MEASUREMENT: PATIENT REPORT 116 70-- 09 150 -160 ë ë B E B W@\DF 90 80 20 140 130 120 FOLLOW YOUR TREATMENT PLAN? CONTROL YOUR BLOOD SUGAR? D MANAGING YOUR DISEASE? HOW HARD IS IT FOR YOU TO **QUERY RESPONSES** HOW HARD IS IT FOR YOU TO PATIENT: LINDSEY, DAN HOW DO YOU FEEL? HOW WELL ARE YOU **VERY HARD** BADLY HARD BAD 42

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FIG. 10



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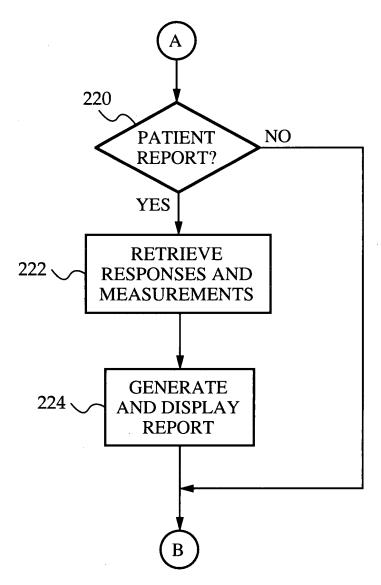
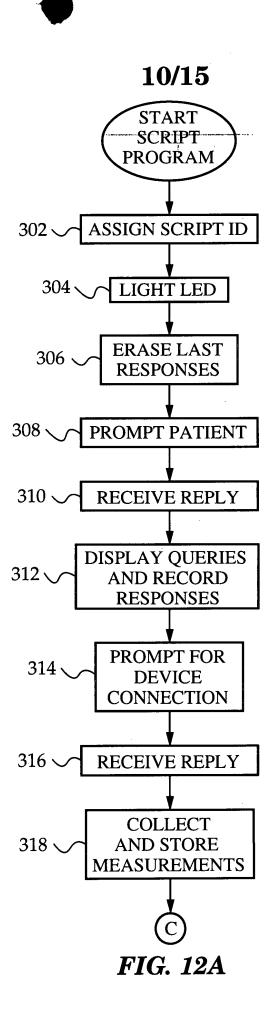
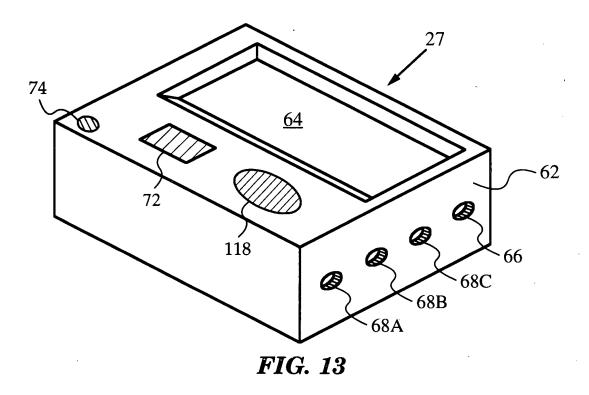


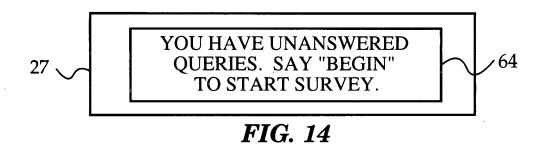
FIG. 11B



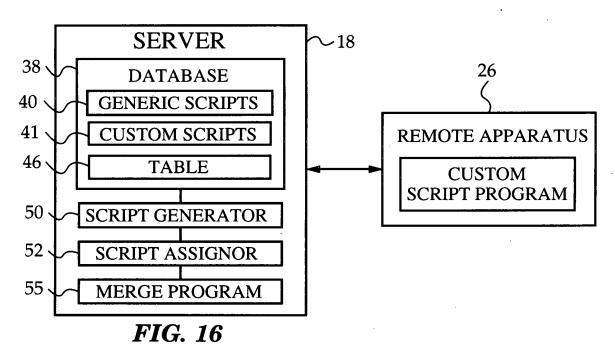
# 11/15 PROMPT FOR 320 PHONE LINE CONNECTION 322 RECEIVE REPLY TURN OFF LED 324 WAIT TO 326 **CONNECT CONNECT** 328 TO SERVER **TRANSMIT** 330 **RESPONSES AND MEASUREMENTS RECEIVE AND** 332 **STORE NEW SCRIPT END SCRIPT PROGRAM**

FIG. 12B





**13/15** 138 ,140 142 144 **8**4 CLOCK RAM AMP, ROM DAC LED TELEPHONE MODEM MODEM JACK **JACK** MICROCONTROLLER 99 122 DISPLAY DISPLAY DRIVER FIG. 15 82 130 DIGITAL LOGIC MULTIPLEXER 80 ✓ MEMORY ADC 136 AGC I/O INTERFACE 27 90 120CONTROL **AND GAIN PREAMP** 128 MONITORING DEVICE JACK 3 68B → JACK 2 68A JACK 1



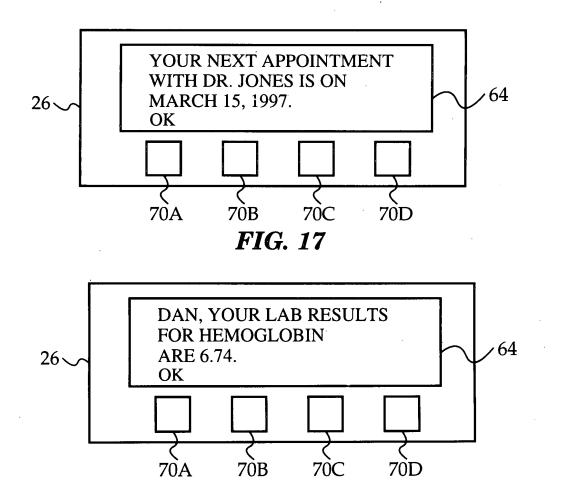


FIG. 18

15/15 96, CHOICE 4 CANCEL CHOICE 3 ,102 CHOICE 2 CREATE SCRIPT **DIABETES SCRIPT 2** SCRIPT ENTRY SCREEN CHOICE 1 OK OK OK  $\frac{100}{}$ <<INSERT PHYSICIAN\_NAME>> IS ON <<INSERT PATIENT\_NAME>>, YOUR <<INSERT APPOINTMENT\_DATE>> YOUR NEXT APPOINTMENT WITH LAB RESULTS FOR HEMOGLOBIN ARE <<INSERT HbA1c\_RESULT>> D <<INSERT PATIENT\_NAME>> REMEMBER TO EXERCISE SCRIPT NAME: 03:00 CONSISTENTLY STATEMENTS CONNECTION TIME: 94

FIG. 19